

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.
VI/99-024.D

In Re Application Of: **FRAZIER et al.**

Serial No.
To be assigned

Filing Date
July 18, 2003

Examiner
To be assigned

Group Art Unit
To be assigned

Title: **COMMUNICATION SYSTEMS FOR USE WITH MAGNETIC RESONANCE IMAGING SYSTEMS**

Address to:
Assistant Commissioner for Patents
Washington, D.C. 20231

37 CFR 1.97(b)

1. ☒ The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

37 CFR 1.97(c)

2. ☐ The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:
- ☐ the statement specified in 37 CFR 1.97(e);
- OR**
- ☐ the fee set forth in 37 CFR 1.17(p).

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.
VI/99-024.D

In Re Application: **FRAZIER et al.**

Serial No.
To be assigned

Filing Date
July 18, 2003

Examiner
To be assigned

Group Art Unit
To be assigned

COMMUNICATION SYSTEMS FOR USE WITH MAGNETIC RESONANCE IMAGING SYSTEMS

Payment of Fee

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

- ☐ A check in the amount of _____ is attached.
- ☐ The Assistant Commissioner is hereby authorized to charge and credit Deposit Account No. _____ as described below. A duplicate copy of this sheet is enclosed.
- ☐ Charge the amount of _____
- ☐ Credit any overpayment.
- ☐ Charge any additional fee required.

Certificate of Transmission by Facsimile*

I certify that this document and authorization to charge deposit account is being facsimile transmitted to the United States Patent and Trademark Office (F

(Date)

Signature

Typed or Printed Name of Person Signing Certificate

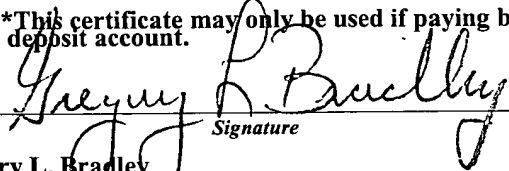
Certificate of Mailing by First Class Mail

I certify that this document and fee is being deposited with the U.S. Postal Service as first class mail under 37 C.F.R. 1.8 and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Signature of Person Mailing Correspondence

Typed or Printed Name of Person Mailing Certificate

*This certificate may only be used if paying by deposit account.


Signature

Dated: July 18, 2003

Gregory L. Bradley
MEDRAD, INC.
One Medrad Drive
Indianola, PA 15051

CC:

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)	
)	
FRAZIER et al.)	
)	
Serial No.: Unassigned)	Art Unit: To be assigned
)	
Filed: July 18, 2003)	Examiner: To be assigned
)	
For: COMMUNICATION SYSTEMS FOR USE)	
WITH MAGNETIC RESONANCE IMAGING))	
SYSTEMS)	

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

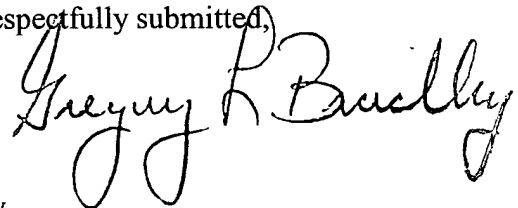
In compliance with Applicants' duty of disclosure under 37 C.F.R. § 1.56,
Applicants submit the attached Forms PTO-1449 listing references for consideration by
the Examiner.

The references cited in the attached Forms PTO-1449 have been made of record in
parent Application Series No. 09/586,140, and copies thereof may be found in the
corresponding application file. Applicants request the Examiner to make the noted
references of record in the file of this application

The Examiner is respectfully requested to initial the attached Forms PTO-1449 to
indicate consideration of the references, and to return copies of the initialed forms to the
undersigned counsel.

This Information Disclosure Statement is being filed before the mailing of a first Office Action on the merits, and NO FEE is due for consideration of this Information Disclosure Statement.

Respectfully submitted,



By

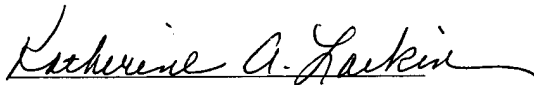
Gregory L. Bradley
Reg. No. 34,299

Dated: July 18, 2003

CERTIFICATE OF EXPRESS MAILING

"Express Mail" Mailing Label No. EV303102545US. Date of Deposit: July 18, 2003. I hereby certify that this paper (along with any referred to as being attached or enclosed) is being deposited with the United States Postal Service "Express Mail Post Office To Addressee" Service under 37 C.F.R. 1.10 on the date indicated above and is addressed to: Mail Stop Patent Application, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

Katherine A. Larkin



INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>				Docket Number (Optional) VI/99-024 . D		Application Number To be assigned		
				Applicant(s) FRAZIER, et al.				
				Filing Date 7/18/2003		Group Art Unit To be assigned		
U.S. PATENT DOCUMENTS								
*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	AA	3,523,523	8/11/1970	Reich, et al.				
	AB	3,812,843	5/28/1974	Wootten, et al.				
	AC	3,880,138	4/29/1975	Wootten, et al.				
	AD	3,888,239	6/10/1975	Rubinstein				
	AE	4,006,736	2/8/1977	Kranys, et al.				
	AF	4,044,757	8/30/1977	McWhorter, et al.				
	AG	4,502,488	3/5/1985	Degironimo, et al.				
	AH	4,585,009	4/29/1986	Barker, et al.				
	AI	4,613,328	9/23/1986	Boyd				
	AJ	4,619,653	10/28/1986	Fischell				
	AK	4,677,980	7/7/1987	Reilly, et al.				
FOREIGN PATENT DOCUMENTS								
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO
	AL	DE 44 40 619	8/31/1995	Germany				✓
	AM	DE 196 21 393	12/4/1997	Germany			✓	
	AN	EP 0 105 550	4/18/1984	Europe				
	AO	EP 0 495 287	7/22/1992	Europe				
	AP	EP 0 518 100	12/16/1992	Europe			✓	
OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>								
	AQ	Nishiura, N., et al., "An Optical and RF Telemetry Drug Injection Control and ECG System For Awake Small Animal Studies," Proceedings of the Annual International Conference of the Engineering in Medicine and Biology Society, Orlando, FL, IEEE, Vol. 13, Conf. 5, pages 2162-2163 (1991).						
	AR	"Market Scan," Diagnostic Imaging, page 61 (September 1988).						
EXAMINER				DATE CONSIDERED				
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								

INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>	ATTY DOCKET NO. VI/99-024.D	SERIAL NO. To be assigned
	FRAZIER, et al.	
	FILING July 18, 2003	GROUP To be assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AS	4,695,271	9/22/1987	Goethel			
AT	4,737,712	4/12/1988	Stormont, et al.			
AU	4,840,620	6/20/1989	Kobayashi, et al.			
AV	4,854,324	8/8/1989	Hirschman, et al.			
AW	4,885,538	12/5/1989	Hoenniger III, et al.			
AX	4,981,137	1/1/1991	Kondo, et al.			
AY	5,027,824	7/2/1991	Dougherty, et al.			
AZ	5,030,201	7/9/1991	Palestrant			
BA	5,134,373	7/28/1992	Tsuruno, et al.			
BB	5,236,417	8/17/1993	Wallis			
BC	5,244,461	9/14/1993	Derlien			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO
BD	EP 0 655 220	5/31/1995	Europe			
BE	1-165010	11/17/1989	Japan			✓
BF	1-223943	9/7/1989	Japan			✓
BG	1-303139	12/7/1989	Japan			✓
BH	5-84296	4/6/1993	Japan			✓

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	BI	Injectron MRT Brochure, Medtron MR-Injector, Technical Data (date unknown).
	BJ	CT/MR Injector Brochure, Ulrich GmbH & Co. KG, (November 1999).

EXAMINER	DATE CONSIDERED
----------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)	ATTY DOCKET NO. VI/99-024 .D	SERIAL NO. To be assigned
	FRAZIER, et al.	
	FILING July 18, 2003	GROUP To be assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
BK	5,269,762	12/14/1993	Armbruster, et al.			
BL	5,274,330	12/28/1993	Rindlisbacher, et al.			
BM	5,300,031	4/5/1994	Neer, et al.			
BN	5,342,298	8/30/1994	Michaels, et al.			
BO	5,352,979	10/4/1994	Conturo			
BP	5,354,273	10/11/1994	Hagen			
BQ	5,357,959	10/25/1994	Fishman			
BR	5,411,485	5/2/1995	Tennican, et al.			
BS	5,417,213	5/23/1995	Prince			
BT	5,458,122	10/17/1995	Hethuin			
BU	5,464,014	11/7/1995	Sugahara			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO
BV	7-178169	Japan			✓	
BW	2752909	Japan			✓	
BX	61-155846	Japan			✓	
BY	WO 99/27847	WIPO				
BZ	WO 01/92907	WIPO				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	CA	Mildenberger, A., "MR Jet Basic Configuration DM 29000," Automation GmbH (February 11, 1998).
	CB	Saini, S., et al., "In Vitro Evaluation of a Mechanical Injector for Infusion of Magnetic Resonance Contrast Media," Technical Report, Investigative Radiology, Vol. 26, No. 8, pp. 748-751 (August 1991).

EXAMINER	DATE CONSIDERED
-----------------	------------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>	ATTY DOCKET NO. VI/99-024 .D	SERIAL NO. To be assigned
	FRAZIER, et al.	
	FILING July 18, 2003	GROUP To be assigned

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
CC	5,472,403	12/5/1995	Cornacchia, et al.			
CD	5,494,036	2/27/1996	Uber III, et al.			
CE	5,862,803	1/26/1999	Besson, et al.			
CF	Re. 36,648	4/11/2000	Uber III, et al.			2/23/1998
CG	US RE37,602 E	3/26/2002	Uber III, et al.			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	CH	Angioject 3 Brochure, CGR, Paris, France (1975).
	CI	Mallinckrodt, Optistar MR Contrast Delivery System Brochure, OR00200 (February 2000).

EXAMINER	DATE CONSIDERED
-----------------	------------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Docket Number (Optional)

VI/99-024.D

Application Number

To be assigned

Applicant(s)

FRAZIER, et al.

Filing Date

July 18, 2003

Group Art Unit

To be assigned

*EXAMINER
INITIAL

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

CJ

International Search Report for Counterpart PCT Application PCT/US01/40826.

CK

"Medrad Targets Market for MRI," Allison Hargraves, Pittsburgh Business Times, Vol. 7, No. 18, p1(2) (December 21, 1987).

CL

"Detection of Acute Avascular Necrosis of the Femoral Head in Dogs: Dynamic Contrast-Enhanced MR Imaging vs. Spin-Echo and STIR Sequences," AJR: 159, pgs. 1255-1261, December 1992.

CM

"An Infusion Pump That Works in MRI," Anesth. Analg. 1993: 77, pg. 645, Letters to the Editor.

CN

Mallinckrodt Optistar MR Digital Injection System, Operator's Manual, 801900-A (November 1999).

CO

Mallinckrodt Optistar MR Digital Injection System, Service and Parts Manual, 801902-A (April 2000).

CP

Medrad Spectris MR Injection System Service Manual, Catalog Number: SSM200 1, 92901-T-129, Rev. A (1996).

CQ

Medrad Spectris MR Injector Operation Manual, SOM 200E, 92901-T-107, Rev. E (1996).

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Docket Number (Optional)

VI/99-024.D

Application Number

To be assigned

Applicant(s)

FRAZIER, et al.

Filing Date

July 18, 2003

Group Art Unit

To be assigned

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,994,984	11/30/1999	Stancil, et al.			5/29/1998

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	AB	Invivo Research Inc., Millennia 3155 MVS Monitor Operations Manual, IRI PN #9545, Release 3, (March 1998).
	AC	Invivo Research Inc., Omni-Trak 3150 MRI Patient Monitor Operations Manual, (January 1998).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Docket Number (Optional)

VI/99-024.D

Application Number

To be assigned

Applicant(s)

FRAZIER, et al.

Filing Date

July 18, 2003

Group Art Unit

To be assigned

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO
	AA	DE 44 40 619	8/31/1995	Germany			✓	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION*(Use several sheets if necessary)*

Docket Number (Optional)

VI/99-024.D

Application Number

To be assigned

Applicant(s)

FRAZIER, et al.

Filing Date

July 18, 2003

Group Art Unit

To be assigned

***EXAMINER
INITIAL****OTHER DOCUMENTS** *(Including Author, Title, Date, Pertinent Pages, Etc.)*

AD

Injektron 82 MRT User Instructions, Version MR2, pgs. 5, 30 and 31, (March 10, 1999).

EXAMINER**DATE CONSIDERED**

***EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.